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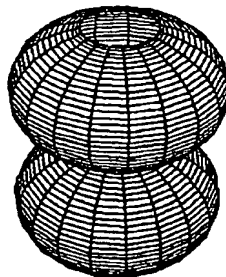
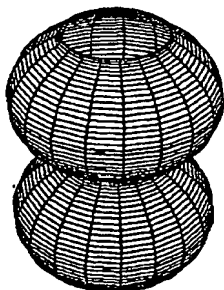
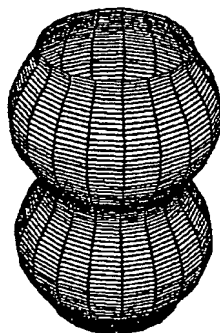
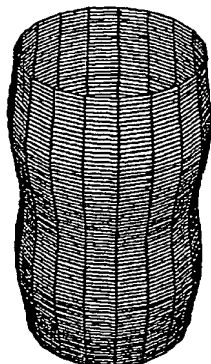
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(54) Title: PRESSURIZABLE STRUCTURES COMPRISING DIFFERENT SURFACE SECTIONS



(57) Abstract: The invention relates to composite pressurizable structures which are overwound with fibres or are braided. The pressurizable structures comprise axial sections which in turn comprise both concave and convex surfaces. The shape characteristics are related to geodesic as well as non-geodesic trajectories in regard of the fibres. Axial sections of the pressurizable structures can be rotated, expanded or bended with respect to the longitudinal axis of the pressurizable structure. Examples of uses of the pressurizable structure relate to pressure vessels and flexible pipelines, spring elements, robotic actuators and adaptable buildings. In another aspect, the invention relates to a method of production by means of braiding, which in principle allows for the construction of very large structures.